Appendix B

RECOMMENDED LATERAL FORCE REQUIREMENTS 1990 EDITION

OF

GENERAL REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF EARTHQUAKE RESISTIVE STRUCTURES

B-1. General.

a. Every structure and every portion thereof shall, as a minimum, be designed and constructed to resist the effects of seismic ground motions as provided in these requirements. Any jurisdiction may adopt more stringent requirements.

b. Where code prescribed wind design produces greater effects the wind design shall govern but detailing requirements and limitations prescribed in these provisions shall be followed.

c. A continuous load path, or paths, with adequate strength and stiffness shall be provided which will transfer all forces from the place of application to the resisting elements.

d. The basis for the seismic design shall be stated on the structural drawings. The statement shall include: (1) the governing edition of the building code; (2) the total base shear coefficient used for seismic design; and (3) a description of the lateral force resisting system, as defined in these requirements.

e. Calculations may include the results from an electronic digital computer program. The following requirements apply to calculation submittals to a building official which include such computer output.

(1) A drawing of the complete mathematical model used to represent the structure in the computer-generated analysis shall be provided.

(2) A program description (User's Guide) shall be available and contain the information necessary to determine the nature and extent of the analysis, verify the input data, interpret the results, and determine whether the computations comply with these recommendations.

(3) Data provided as computer input shall be clearly distinguished from those computed in the program. The information required in the output shall include date of processing, program identification, identification of structures being analyzed, all input data, units and final results.

(4) The first sheet of each computer run shall be signed by the engineer responsible for the structural design.

B-2. Design criteria. The Structural Engineers Association of California (SEAOC) manual *Recommended Lateral Force Requirements and Commentary 1990 Edition* is an integral part of this manual. It is necessary to have the SEAOC manual to use this Technical Manual.

The SEAOC manual can be obtained by contacting:

Structural Engineers Association of California
P.O. Box 19440
Sacramento, California 94819-0440